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PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATI			
09/417,705	10/13/1999	JUNYA KAKU	991142	7820	
23850	7590 08/03/2004		EXAMINER		
	NG, KRATZ, QUINTO	NGUYEN, LUONG TRUNG			
1725 K STREET, NW SUITE 1000 WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
			2612		
			DATE MAILED: 08/03/2004	14	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application N	lo.	Applicant(s)				
Office Action Summary		09/417,705		KAKU, JUNYA				
		Examiner		Art Unit				
		LUONG T NO		2612				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the co	ver sheet with the c	orrespondence addres:	s			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a report of the properties of the proper	l. 1.136(a). In no event, heply within the statutory d will apply and will expute, cause the application	owever, may a reply be timminimum of thirty (30) days oire SIX (6) MONTHS from on to become ABANDONEI	nely filed s will be considered timely. the mailing date of this commur O (35 U.S.C. § 133).	nication.			
Status								
1)⊠	Responsive to communication(s) filed on 23.	June 2004.						
·	☐ This action is FINAL . 2b) ☐ This action is non-final.							
<i>'</i> =								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 10-14 is/are pending in the application 4a) Of the above claim(s) is/are withdress claim(s) is/are allowed. Claim(s) 10-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consic						
Applicati	on Papers							
9)[The specification is objected to by the Examir	ner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the	e drawing(s) be he	eld in abeyance. See	37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	Ţ.	-,,		` '			
	ınder 35 U.S.C. § 119							
12) a)[Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a lis	nts have been re nts have been re ority documents au (PCT Rule 17	ceived. ceived in Application have been receivee 7.2(a)).	on No d in this National Stag	e			
Attachmen	t(s)							
1) 🔯 Notic	e of References Cited (PTO-892)	4) [Interview Summary	(PTO-413)				
3) 🔯 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>8</u> .	5) [6) [Paper No(s)/Mail Da					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/23/2004 has been entered.

Response to Arguments

2. Applicant's arguments with respect to newly added claims 10-14 filed on 6/23/2004 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

3. Claims 10-14 are objected to because of the following informalities:

Claim 10 (line 5), "the memory area" should be changed to --a memory area--.

It should be noted that, the specification, page 3, lines 11-12, disclose "the second predetermined period is 1/Nth (N is an integer equal to or greater than 2) of the first period.

Therefore, in claim 10 (line 9), "one for an integer" should be changed to --one over an integer--.

Claims 11-14 are objected as being dependent on claim 10.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (US 5,734,427) in view of Hirabyashi et al. (US 6,295,596) further in view of Kanai et al. (US 5,835,164).

Regarding claims 10, 13, Hayashi discloses a digital camera, comprising a creator for creating an image signal corresponding to an optical image of an object scene (combination of CCD image sensor 12, preprocessing 14, ADC 16, movie processing circuit 20, figure 1, column 2, line 52-column 3, line 15); a memory (memory 240, figures 2A-2B, column 5, lines 35-50); a writer for writing the second image signal created by said creator to one of said plurality of memory areas (write control signal, column 5, lines 35-50); and a reader for reading the image signal from another of said plurality of memory areas (read control signal, column 5, lines 35-50); a displayer for displaying an image based on the image signal read out by said reader (monitor 29, figure 1, column 2, lines 52-56).

Hayashi fails to specifically disclose a memory having a plurality of memory areas; a changer for changing a selecting a memory area at an interval of the first period; a writer for writing the second image signal created by said creator to one of said plurality of memory areas based on a changing result of said changer; and a reader for reading the image signal from another of said plurality of memory areas based on the changing result of said changer every

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second period. However, Hirabayashi et al. disclose memory 11 (SDRAM) has two banks A and B, the data can be written and read out, independently of each other, these banks can be switched (figure 1, column 4, line 63 – column 5, line 3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Hayashi by the teaching of Hirabayashi et al. in order to obtain a device in which data can be read out fast by switching the banks (column 6, lines 29-30).

Hayashi and Hirabyashi et al. fail to specifically disclose creating an image signal of an object scene every first period, and reading the from another of the plurality of memory areas every second period which is one over an integer of the first period. However, Kanai et al. teach a video signal processor, which comprises a memory, in which the digital data being written into the memory at a first rate based on a writing control clock and being read from the memory at a second rate, which is n times the first rate, n is an integer grater than one (see abstract, column 57, lines 29-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Hayashi and Hirabayashi et al. by the teaching of Kanai et al. in order to reduce flicker (see abstract).

Regarding claim 11, Hayashi discloses an imaging device (CCD image sensor 12, figure 1, column 2, line 52 - column 3, line 15), a processor (preprocessing 14, ADC 16, movie processing circuit 20, figure 1, column 2, line 52-column 3, line 15).

Regarding claim 12, Hayashi discloses the imaging surface has a first resolution (CCD image sensor 12, figure 1, column 2, lines 60-67), and the image signal has a second resolution

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lower than the first resolution (image signal output from movie processing circuit has lower resolution, figures 1, column 2, lines 52-56).

Regarding claim 14, Hirabayashi et al. disclose the changer changes the selecting of the memory area in a predetermined order (column 6, line 64 – column 7, line 40).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T NGUYEN whose telephone number is (703) 308-9297. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN LN 7/21/04

TUAN HO
PRIMARY EXAMINER